WHAT IS CLAIMED IS:

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1. A linear actuator, comprising:

two half-shells joined together to form a chamber;

a motor housing extending outwardly from one of the half-shells, the motor housing being in communication with the chamber;

a motor installed in the motor housing for driving a motor shaft extending towards into the chamber, the motor shaft including a worm;

a guiding screw having a threaded section and a fitting section connected as a line, wherein the threaded section includes a worm gear to be intermeshed with the motor shaft, the fitting section extends into the chamber to be mounted to a rear arm extending out of the half-shells from a rear end thereof, and the threaded section extends out of the half-shells from a front end thereof, the threaded section includes a screw nut;

an interior tube encircling the guiding screw and having a rear end connected to the screw nut, the interior tube including a connection member at a front end thereof;

an exterior tube telescopically receiving the interior tube therein, the exterior tube having a rear end extending into the chamber and a front end allowing the connection member to extend out of the chamber;

at least two ball bearings installed in the fitting section at two sides of the worm gear; and

a fitting seat installed in the chamber allowing the fitting section to extend through, the fitting seat including a worm gear seat and two bearing seats for receiving the worm gear and the ball bearings therein.

- 2. The actuator of Claim 1, wherein the ball bearings have different sizes.
- 3. The actuator of Claim 1, wherein the fitting seat has a front end connected to an exterior tube sleeve which receiving the rear end of the exterior tube therein.

- 4. The actuator of Claim 3, wherein the fitting seat has a rear end connected to the rear arm.
- 5. The actuator of Claim 3, wherein the front end of the exterior tube further comprises a fitting lid to cover the interior tube.
- 6. The actuator of Claim 1, wherein the fitting seat has a rear end connected to the rear arm.
- 7. The actuator of Claim 1, wherein the front end of the exterior tube further comprises a fitting lid to cover the interior tube.
- 8. The actuator of Claim 1, further comprising a control member, an interlock member connected to the control member and a clutch member to be engaged and disengaged with the worm gear, wherein the clutch member is installed at the fitting section and fitted at a proximal end of the worm gear, while a distal end of the worm gear includes a resilient member.
- 9. The actuator of Claim 8, wherein the clutch member is fitted at the fitting section by a fitting member.
 - 10. The actuator of Claim 9, wherein the fitting member includes a bolt.
 - 11. The actuator of Claim 8, wherein the resilient member includes spring.

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